

Title: LIST OF B. N. DELONE'S MATHEMATICAL WORKS (USSR)

Source: Izvestiya Akademii Nauk Seriya Matematicheskaya, Vol XIV,
No 4, July/Aug 1950, Russian Periodical, pp 300-303

CONFIDENTIAL

CONFIDENTIAL

LIST OF B.N. DELONE'S MATHEMATICAL WORKS

The following list of 59 works was abstracted from the appendix to an article on Corr-Mem Acad Sci USSR Boris Nikolayevich Delone, written on the occasion of his 60th birthday in the Izvestiya Akademii Nauk SSSR, Seriya Matematicheskaya Vol XIV No. 4 (July/August 1950). For convenience, the list begins with Delone's latest (1950) works and ends with his earliest (1912).

1. 1950: "Lobachevskian Geometry and Some of its Applications", Voprosy Istorii Otechestvennoy Nauki (Problems in the History of Russian Science), Publishers of the Acad Sci USSR.
2. 1949: Analytical Geometry (Analiticheskaya Geometriya), Vol II. Coauthor: D.A. Raykov. State Technical Publishers, Moscow-Leningrad, 516 pp.
3. 1948: Analytical Geometry, Vol I. 456 pp.
4. 1947: Petersburg School of the Theory of Numbers (Peterburgskaya Shkola Teorii Chisel), Publishers of Acad Sci USSR, Moscow-Leningrad, 420 pp.
5. "Algorithm of 'Divided' Parallelograms", Izv Ak Nauk SSSR, Ser Mat Vol XI, pp 505-538.
6. 1945: "Local Method in the Geometry of Numbers". Izv Ak Nauk SSSR, Ser Mat Vol IX, pp 241-256.
7. 1944: "Investigations in the Geometry of Galois' Theory". (co-author: D.K. Faddeyev), Mat Sbornik, Vol 15 (57): 2, pp 243-284.
8. 1940: "Geometry of Galois's Theory", Symposium in Memory of D.A. Grave (Sbornik Pamyati D.A. Grave), State Technical Publishers, Moscow-Leningrad, pp 52-62.
9. "Theory of Cubic Irrationalities" (co-author: D.K. Faddeyev), Trudy Mat Inst Ak Nauk SSSR, Vol XI, 340 pp.

- 1 -

CONFIDENTIAL

CONFIDENTIAL

10. 1938: "Geometry of Positive Quadratic Forms. Part Two". Usp Mat Nauk, No. 4 pp 102-164.
11. 1937: "Geometry of Positive Quadratic Forms", Usp Mat Nauk, No. 3 pp 16-62.
12. Problem Book in Geometry (Zadachnik po Geometrii) 3rd edition, Leningrad-Moscow, Published by Glav Red Obshch Lit, 276 pp. (co-author: O. Zhitomirskiy.)
13. 1936: "Mathematical Training in Secondary School", Vysh Tekh Shkola, No. 5, pp 58-59.
14. "Rational Utilization of Mathematical Literature for Scientific Work in the Field of Mathematics". Notes in connection with the circulation of L.E. Dickson's book, History of the Theory of Numbers, Vols 1, 2, 3". Usp Mat Nauk, No. 2, pp 292-295.
15. "Proof of the Brun-Minkowsky Inequality", Usp Mat Nauk, No.2, pp 39-46.
16. "Herman Minkowski". Usp Mat Nauk, No. 2, pp 32-38.
17. "Direct Tabulation of 4th-Order Regions", Trudy II Vses Syezda Matematikov v Leningrade, 24-30 June 1934, Vol 2, Reports Section, Moscow-Leningrad, p 28. (co-authors: P.S. Sominskiy and K.K. Vilevich).
18. "Theory of Numbers and Crystallography", Trudy II Vses. Syezda Matematikov v Leningrade, 24-20 [sic] June 1934, Vol 2, Reports Section, Moscow-Leningrad, pp 20-21.
19. "The Contemporary State of Discrete Geometry", Trudy I Vses Syezda Matematikov v Kharkove, 1930, Moscow-Leningrad, pp 203-204 (co-author: V.A. Tartakovsk).
20. "Well-defined Arrangement of Crystals", Izv Sek Fiz-Khim Analiza Ak Nauk SSSR, Vol 8, pp 99-101.
21. Geometry of Binary Quadratic Forms (Geometriya binarnykh Kvadratichnykh form) (Lejeune-Dirichlet: Lectures on the Theory of Numbers) Moscow-Leningrad, pp 370-403.

- 2 -

CONFIDENTIAL

CONFIDENTIAL

22. 1935: "Table of Purely Real k th-Order Regions", Izv Ak Nauk SSSR, OMEN, No 10, pp 1267-1297 (co-authors: I. Sominskiy and K. Vilevich).
23. Problem Book in Geometry. 2nd Edition revised and Supplemented, Leningrad-Moscow, ONTI, Glav Red Obshch Lit, 1935, 276 pp (co-author: O. Zhitomirskiy).
24. 1934: "The Hollow Sphere. In Memory of Georg Voronoy" (in French), Izv Ak Nauk SSSR, OMEN, No. 6, pp 793-800.
25. "Proof of Fermat's Theorem for $n = 3$ with the Help of a Cubic Region", Dok Ak Nauk SSSR, Vol 1, pp 7-9.
26. Mathematical Bases for the Structural Analysis of Crystals and Determination of the Basic Parallelepiped of Frequency with the help of Roentgen Rays. Leningrad-Moscow, ONTI, 328 pp (co-authors: N. Padurov and A. Aleksandrov).
27. 1933: "Generalization of the Theory of Parallelhedra". Izv Ak Nauk SSSR, OMEN No 5, pp 641-646.
28. "Yuriy Todosevich Voroniy", Zhur Mat Tsiklu Vseukr Akad Nauk, Vol 1, No 2, pp 15-16.
29. "The Most Compact Parallelepipedal Arrangement of Spheres in Three - or Four-dimensional Space", Trudy Fiz-Mat. Inst imeni Steklova, Otd Mat, Vol 4, pp 63-69.
30. 1932: "New Representation of Geometric Crystallography" (in German), Abh 1. Zeitschrift fur Kristallographie, Bd 84, pp 109-149.
31. 1929: V.I. Komarnitskiy: Fundamentals of Analytic Geometry on a plane and in Space. 2nd Edition, edited and supplemented by Prof B.N. Delone. Leningrad-Moscow, GTTI, 287 pp.
32. "On the Regular Partition of 4-Dimensional Space, Part 2", (in French) Izv Ak Nauk SSSR, Otd Fiz-Mat Nauk, pp 147-164.
33. "On the Regular Partition of 4-Dimensional Space. Part 1" (in French) Izv Ak Nauk SSSR, Otd Fiz-Mat Nauk, pp 79-110.

CONFIDENTIAL

34. 1929: "Notes on the Work by Herr Trygve Nagel: 'Representation of Whole Numbers through Binary Cubic Forms with Negative Discriminate'". (in German), Math Zeitschrift, Bd. 31, p 27-28.
35. "On the Representation of Numbers through Binary Cubic Forms: (with) Negative discriminates". (in German), Math Zeitschrift, Bd 31, pp 1-26.
36. 1928: "Complete Solution of the Indeterminate Equation $ax^3 + y = 1$ [sic] in Whole Numbers". (in German), Mat Zeitschrift, Bd. 28, pp 1-9.
37. "On the Regular Partition of 4-Dimensional Space" (in German), Atti Congresso Int Mat Bologna, Vol 4, pp 147-156.
38. "On the Representation of Numbers through Binary Cubic Forms with Negative Discriminates", (in German), Atti Congresso Int Mat Bologna, Vol 2, pp 9-12.
39. "On the Hollow Sphere" (in French), Proceedings of the International (Mathematical Congress Held in Toronto 11-16 Aug 1924, Vol 1, Toronto, Univ of Toronto Press, pp 695-700.
40. "The Topology of Parallelepipedal Systems of Points", Trudy Vseross S'yezda Mat v Moskve 27 Apr - 4 May 1927, Moscow-Leningrad, Gos Izd, pp 226-227.
41. "Indeterminate Equations", Trudy Vseros S'yezda Mat v Moskve 27 Apr-4 May 1927, Moscow-Leningrad, Gos Izd, pp 148-161.
42. Problems with Solutions for the Refresher Course in Elementary Mathematics. 1. Leningrad, Nauch Knigoizd (co-author: O.K. Zhitomirskiy).
43. 1927: "On the Algorithm of Involution" (in German), Zhur Leningrad Fiz-Mat Obshch, Vol 1, No 2, pp 257-267.
44. 1926: "On the Theory of Parallelohedra" (in French), Comptes Rendus, Paris, Vol 183, pp 464-467.
45. "The Problem of Uniqueness in the Determination of the Basic Parallelepiped of Crystal Structure by Debye's Method", Zap Min Obshch, Series 2, Part 55, No 1, pp 169-182.

- 4 -

CONFIDENTIAL

CONFIDENTIAL

46. "Solution of the Problem of Equivalence and Tabulation of Cubic Binary Forms of a Negative Determinant", Zhur Leningrad Fiz- Mat Obshch, Vol 1, pp 40-55.
47. 1924: "On the Representation of Numbers by Binary Forms" (in French), Comptes Rendus, Paris, Vol 178, pp 1458-1461.
48. 1923: "Geometric Interpretation of the Generalization of the Algorithm of Continued Fractions Given by Voronoy" (in French), Comptes Rendus, Paris, Vol 176, pp 554-556.
49. 1922: "Determination of the Algebraic Number-Field through Congruence: an Application to Abelian Equations" (in German), Journ fur Math, Bd 152, pp 120-123.
50. "Solution of the Indeterminate Equation $x^3p + y^3 = 1$ ", Izv Ross Akad Nauk, Vol 16, pp 273-280.
51. "The Number of Representations of a Number by a Binary Cubic Form with a Negative Determinant". Iz Ross Akad Nauk, Vol 16, pp 253-272.
52. 1921: "Resolution of the Indeterminate Equation $gx^3 - px^2y + hxy^2 + y^3 = 1$ " (in French), Comptes Rendus, Paris, Vol 172, pp 434-436.
53. 1920: "The Number of Representations of a Number by a Cubic Form with a Negative Discriminant" (in French), Comptes Rendus, Paris, Vol 171, pp 336-338.
54. 1916: "The General Solution of the Equation $x^3p + y^3 = 1$ " (in French), Comptes Rendus, Paris Vol 162, pp 160-151 (Sic).
55. "Solution of the Indeterminate Equation $x^3p + y^3 = 1$ ", Soobshcheniya Kharkov Mat Obshch, Vol 15, No 2, pp 75-76.
56. 1915: "Solution of the Indeterminate Equation $x^3p + y^3 = 1$ ", Soobshcheniya Kharkov Mat Obshch, Series 2, Vol 15, No 1, pp 11-16.
57. "Solution of the Indeterminate Equation $x^3p + y^3 = 1$ ", Soobshcheniya Kharkov Mat Obshch, Series 2, No 1, pp 1-10.

CONFIDENTIAL

CONFIDENTIAL

58. "Determination of an Algebraic Region with the Help of Comparisons
(with Application to Abelian Equations)", Soobshcheniya Kharkov
Mat Obshch, Series2, Vol 14, No 6, pp 271-274,
59. 1912: "Connections between the Theory of Ideals and Galois' Theory",
Prize Paper (not published).

50X1-HUM

- E N D -

- 6 -

CONFIDENTIAL